

FIG. 2

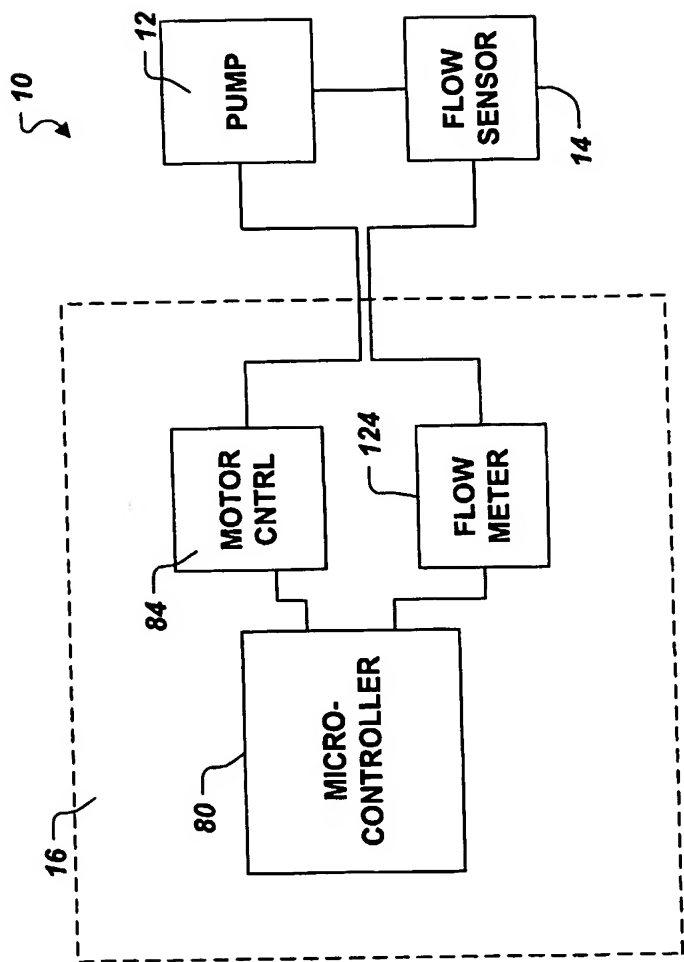


FIG. 3

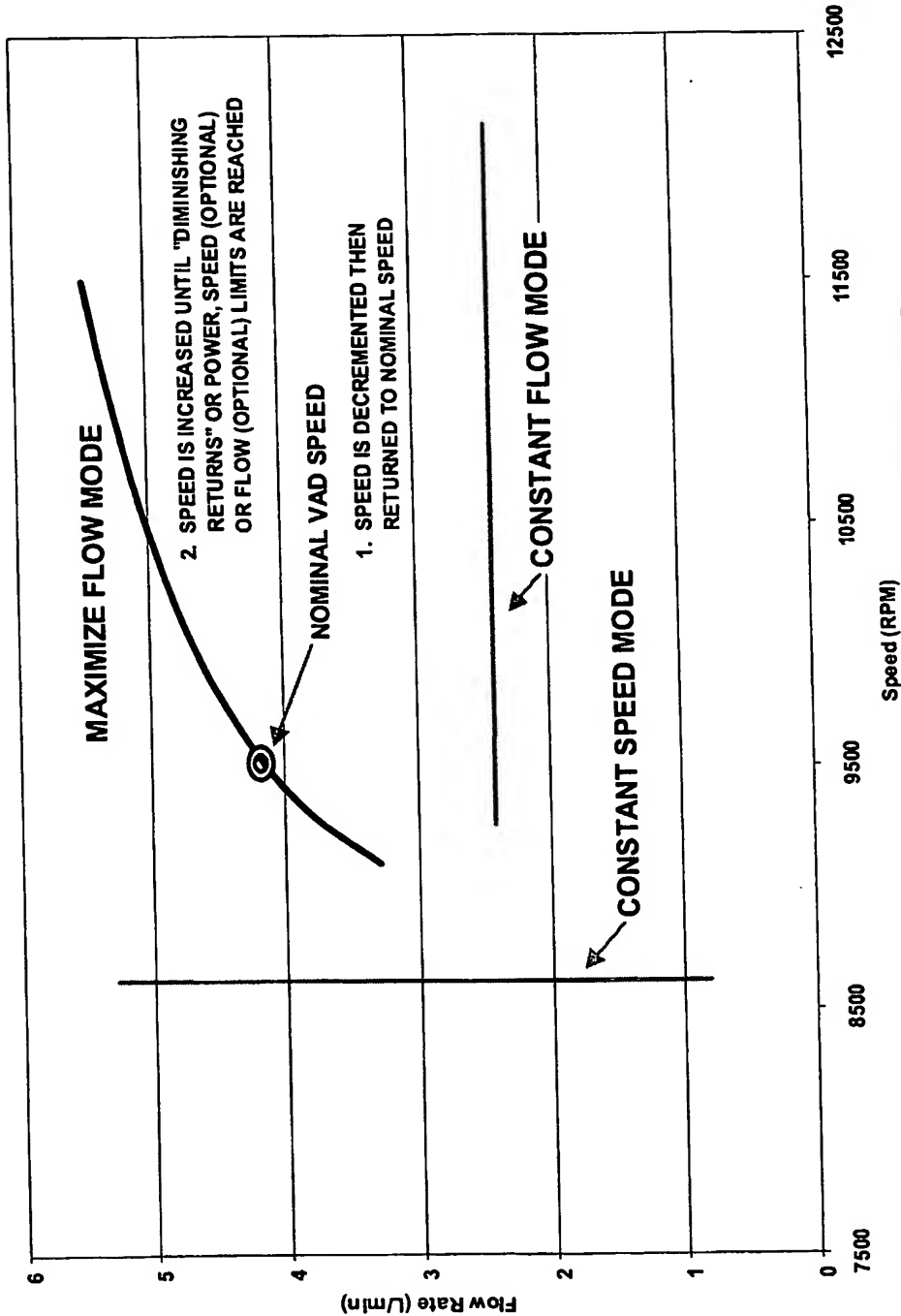


FIG. 4A

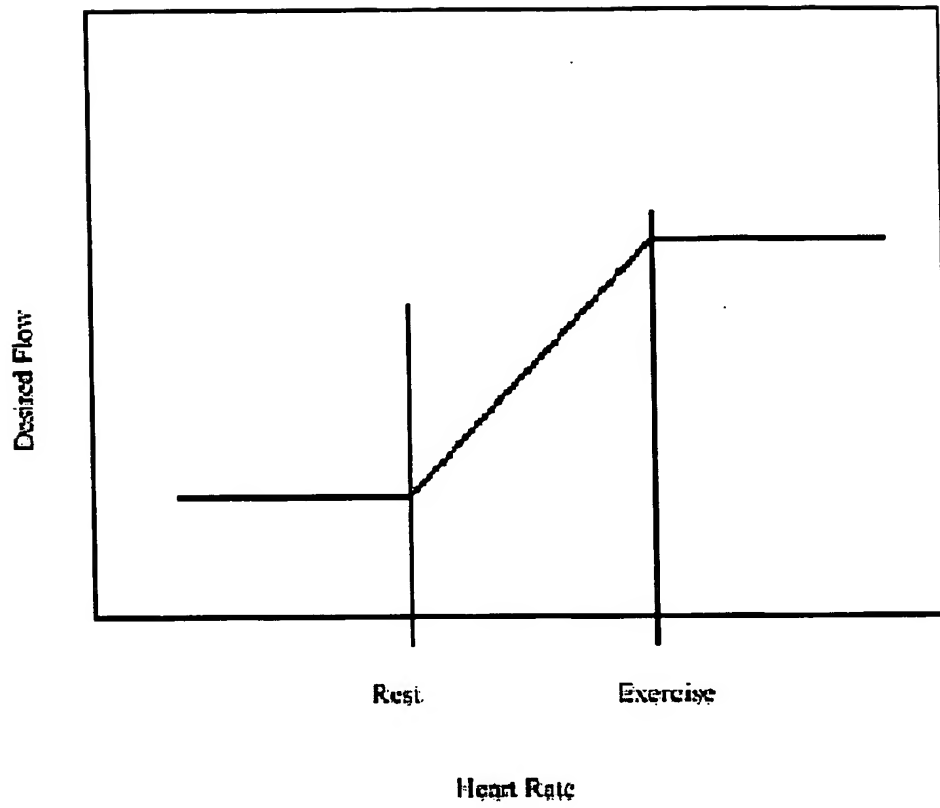
**FIG. 4B**

FIG. 5A. Constant Speed

| Control Variable | Speed limit/alarm |     | Power Max | Flow      |     | Suction Detection |
|------------------|-------------------|-----|-----------|-----------|-----|-------------------|
|                  | Min               | Max |           | Min       | Max |                   |
| enter Speed      | 7.5k              | n/a | 15W       | enter min | n/a | Enabled/Disabled  |

FIG. 5B Nominal Flow

| Control Variable | Speed limit/alarm |       | Power Max    | Flow       |     | Suction Detection |
|------------------|-------------------|-------|--------------|------------|-----|-------------------|
|                  | Min               | Max   |              | Min        | Max |                   |
| enter Flow       | 8.0k              | 11.0k | 8+Flow * 1.5 | Flow * .75 | n/a | Enabled           |

FIG. 5C. Constant waviness

| Control Variable | Speed limit/alarm |       | Power Max    | Flow      |     | Suction Detection |
|------------------|-------------------|-------|--------------|-----------|-----|-------------------|
|                  | Min               | Max   |              | Min       | Max |                   |
| P2P = 4          | 8.0k              | 11.0k | 8+Flow * 1.5 | enter min | n/a | Enabled           |

FIG. 5D Maximize Flow - waviness (P2P)

| Control Variable | Speed limit/alarm |       | Power Max | Flow     |     | Suction Detection |
|------------------|-------------------|-------|-----------|----------|-----|-------------------|
|                  | Min               | Max   |           | Min      | Max |                   |
| P2P = 2***       | 9.0k              | 12.0k | 18        | imported | n/a | Enabled/Disabled  |

FIG. 5E Maximize Flow - dQ/dN (diminishing returns)

| Control Variable | Speed limit/alarm |       | Power Max | Flow     |     | Suction Detection |
|------------------|-------------------|-------|-----------|----------|-----|-------------------|
|                  | Min               | Max   |           | Min      | Max |                   |
| dQ/dN            | 9.0k              | 12.0k | 18        | imported | n/a | Enabled/Disabled  |

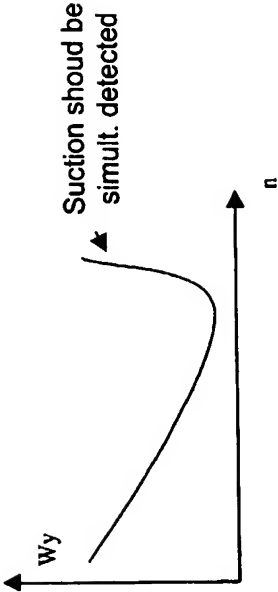


FIG. 6A

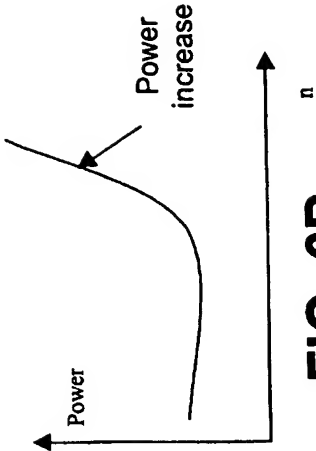


FIG. 6B

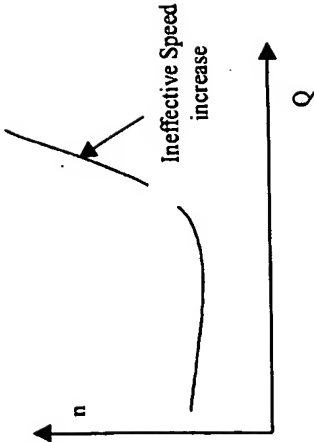
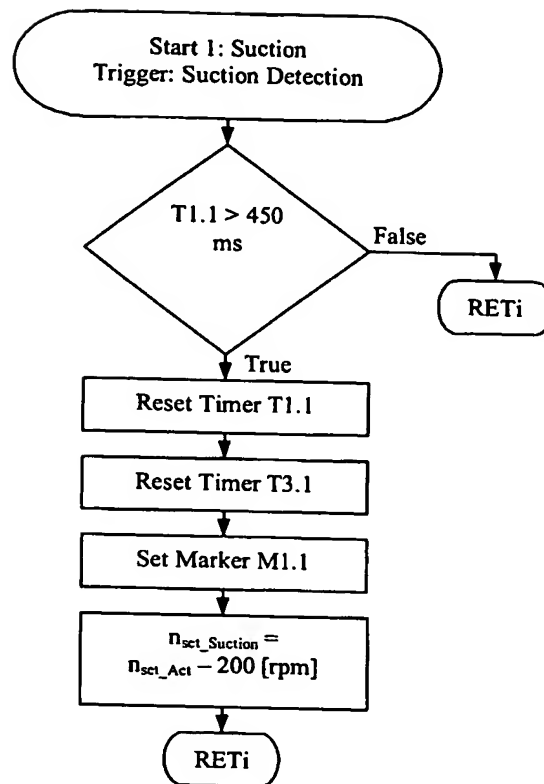


FIG. 6C

**FIG. 7**



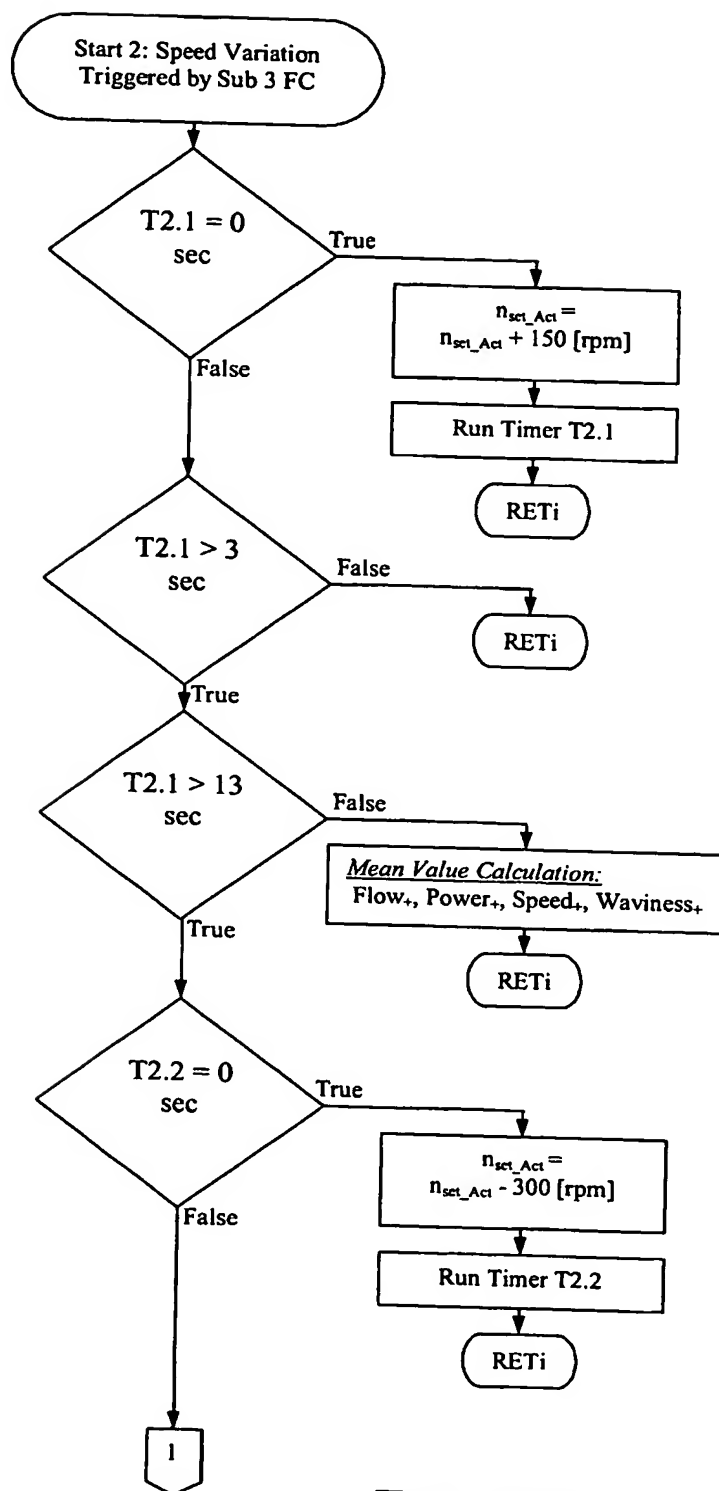


FIG. 8A

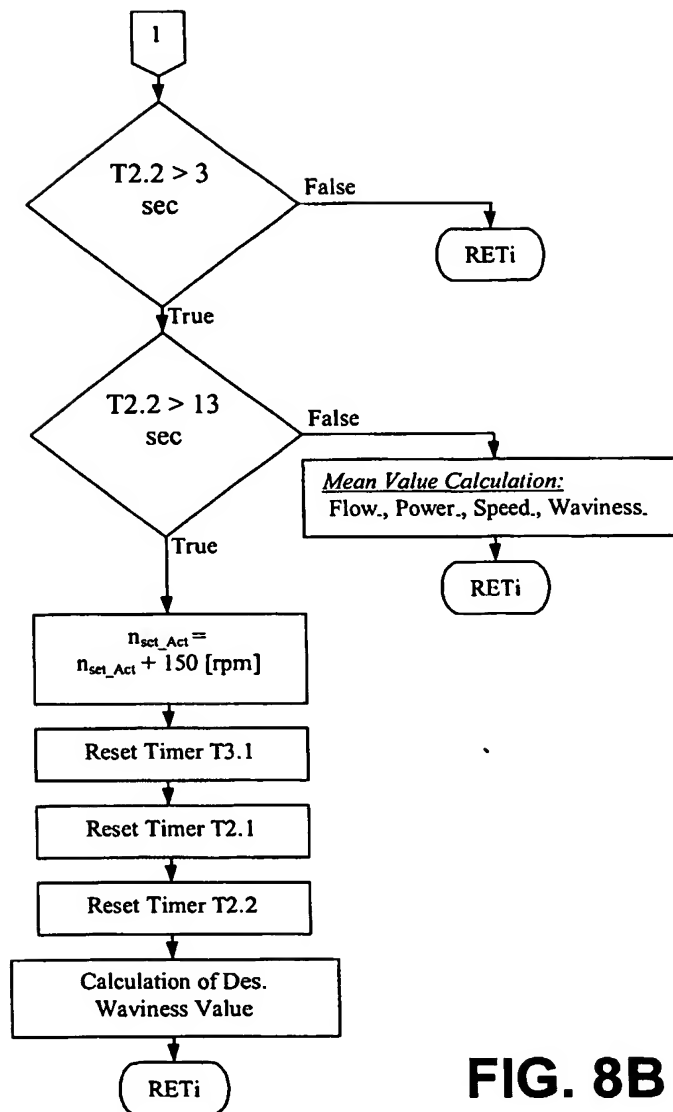
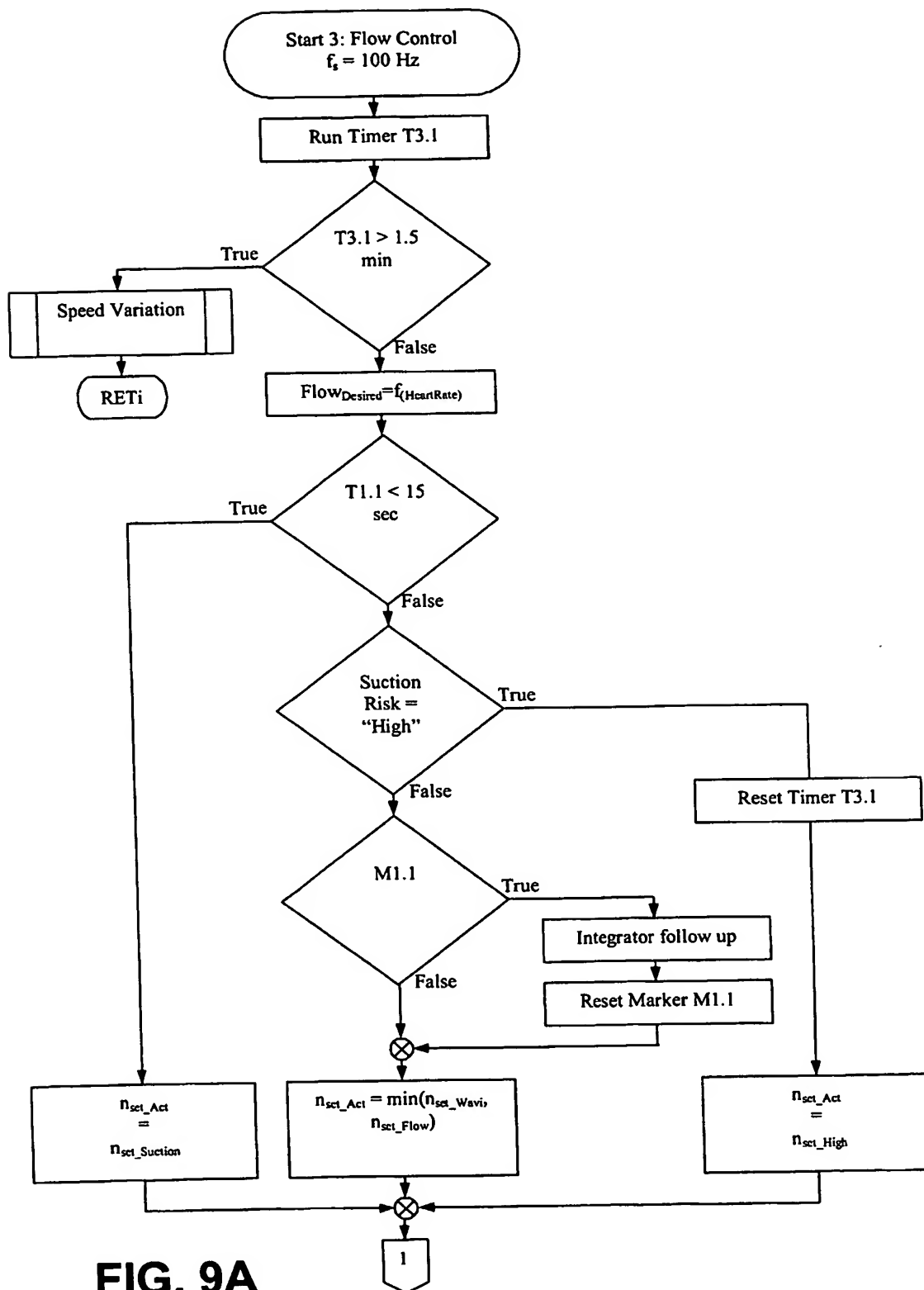
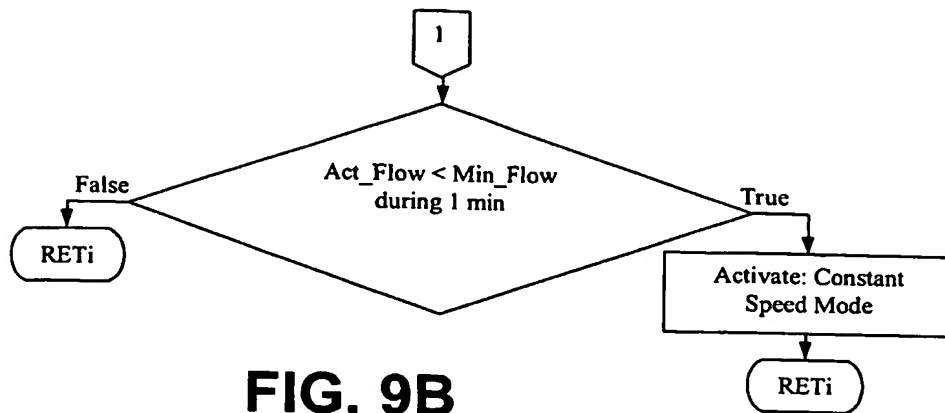
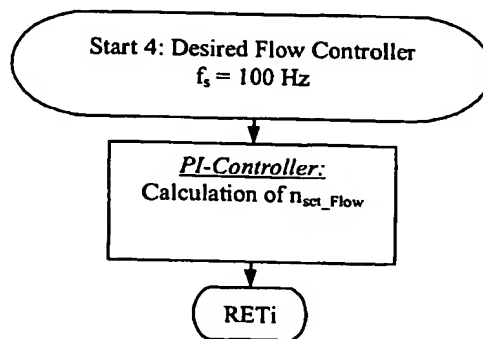
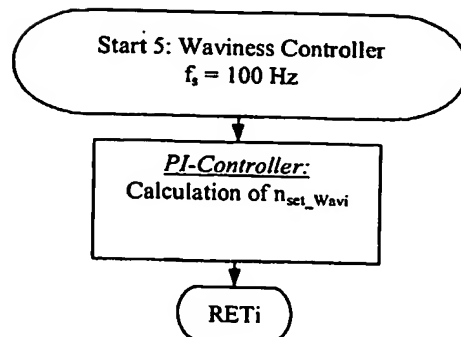


FIG. 8B



**FIG. 9B****FIG. 10****FIG. 11**

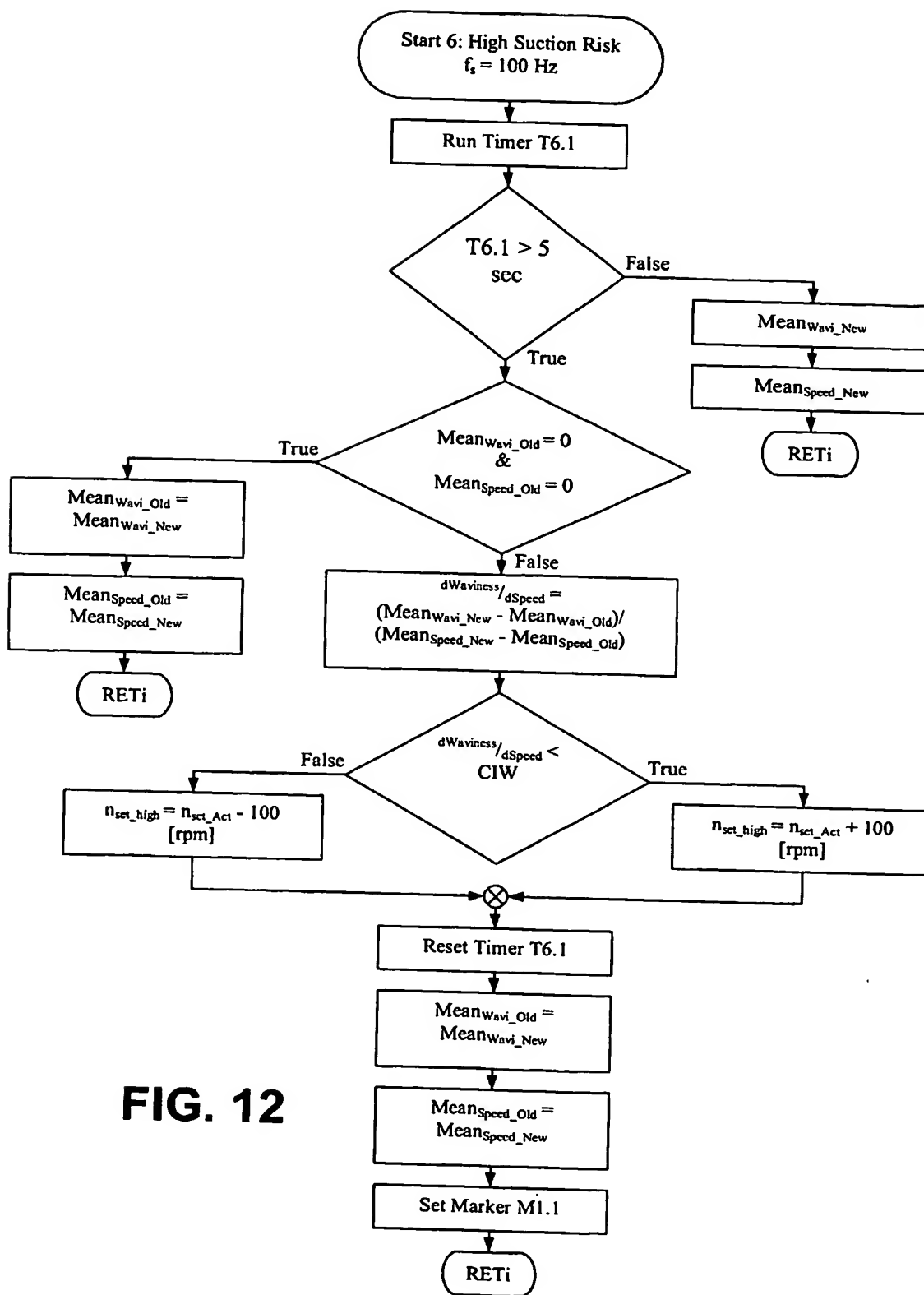


FIG. 12

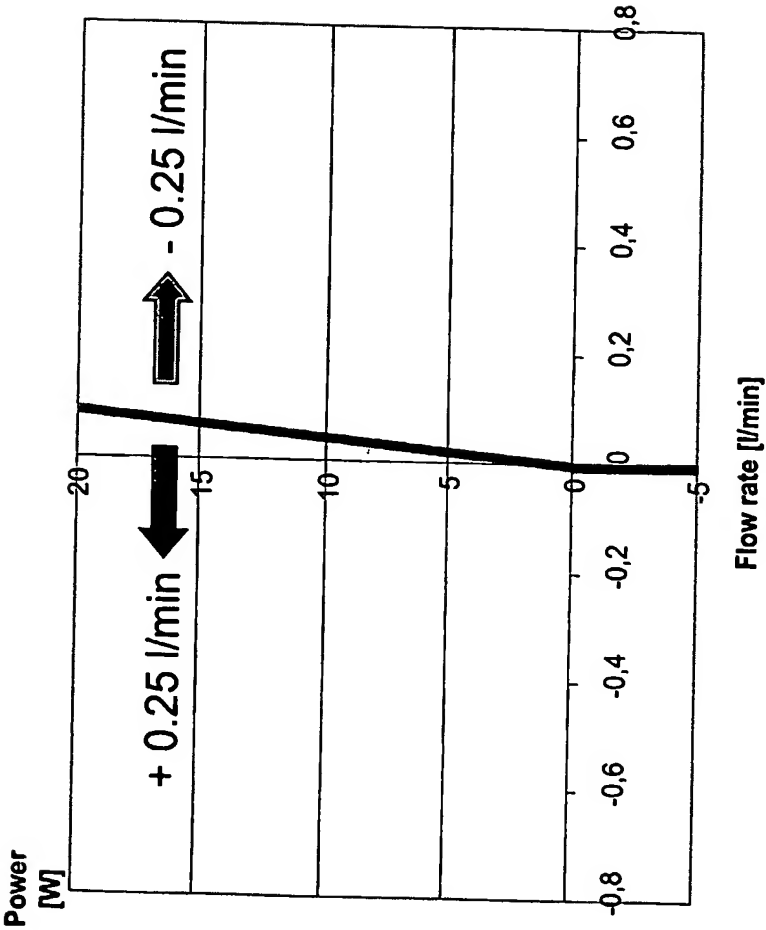


FIG. 13